

FIG. 1

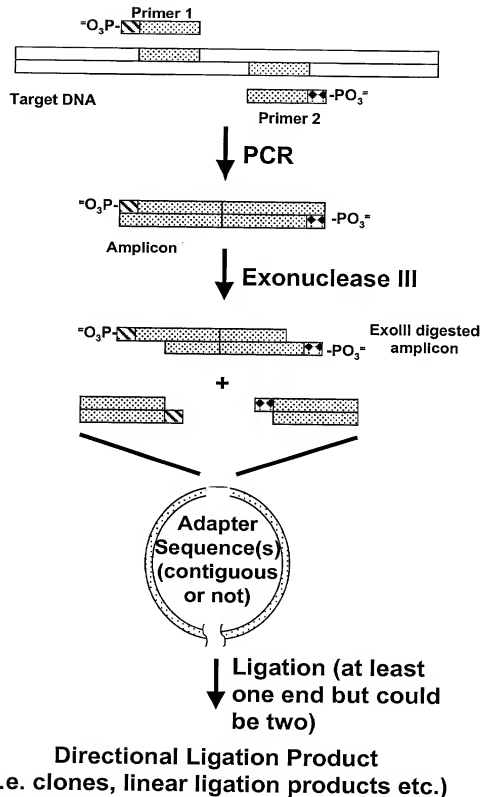


FIG. 2

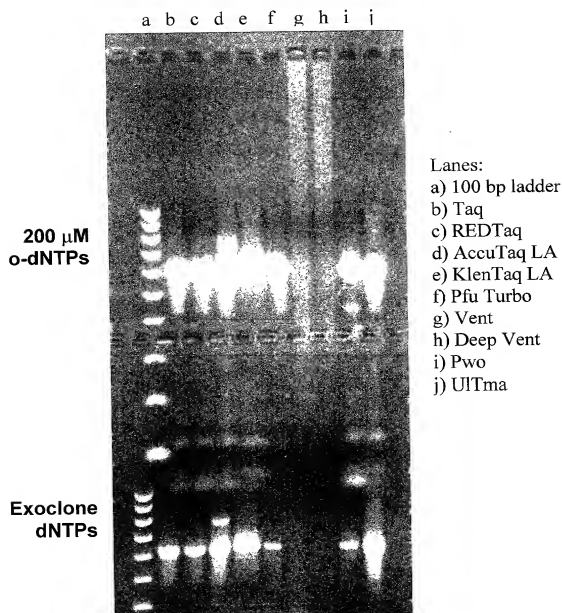


FIG. 3

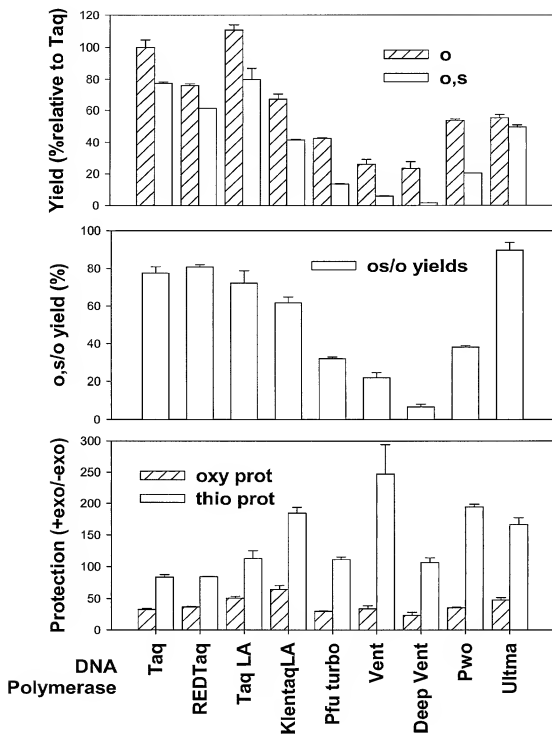


FIG. 4

1. Cold PCR, 2. + ExoIII/32PdCTP,
3. TCA precipitate

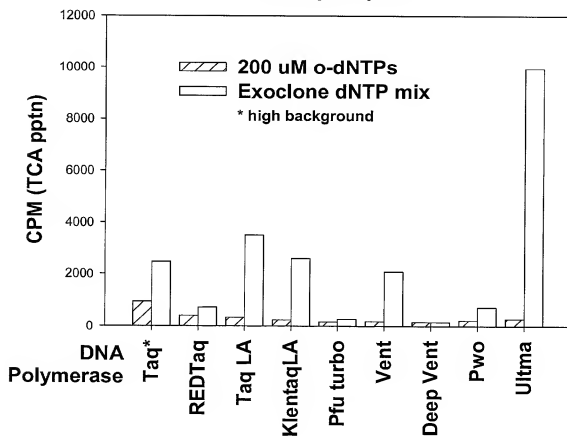
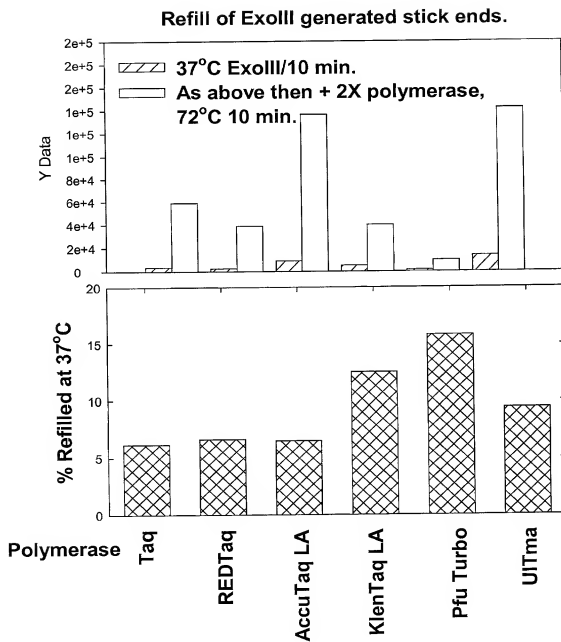


FIG. 5



6/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al
SCM 0938 1

FIG. 6

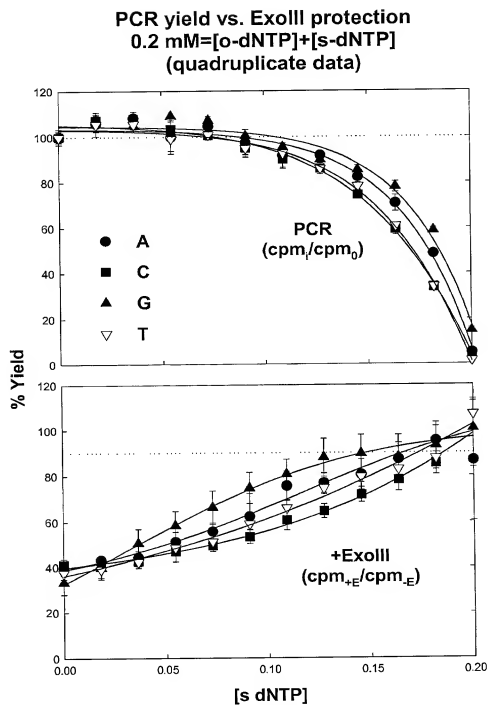


FIG. 7

o dA, dG occupation of PCR product
as a function of [s dA/GTP]
[dC/TTP]=100 μ M, [o dA/GTP]=50 μ M
[s dATP]+[s dGTP]=500 μ M

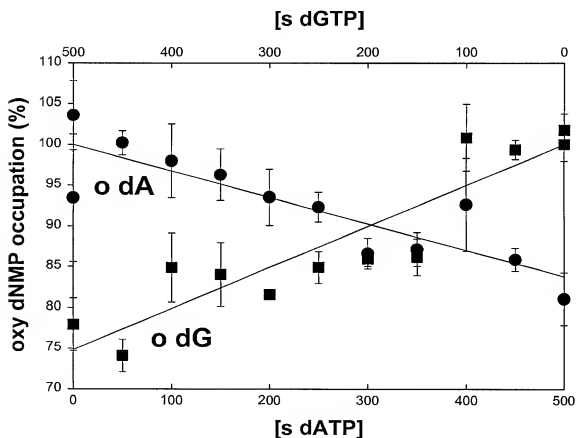
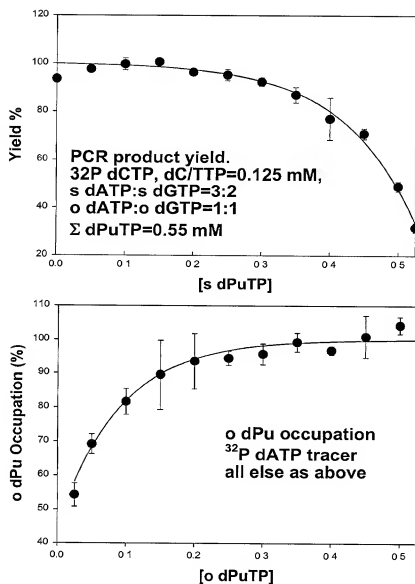


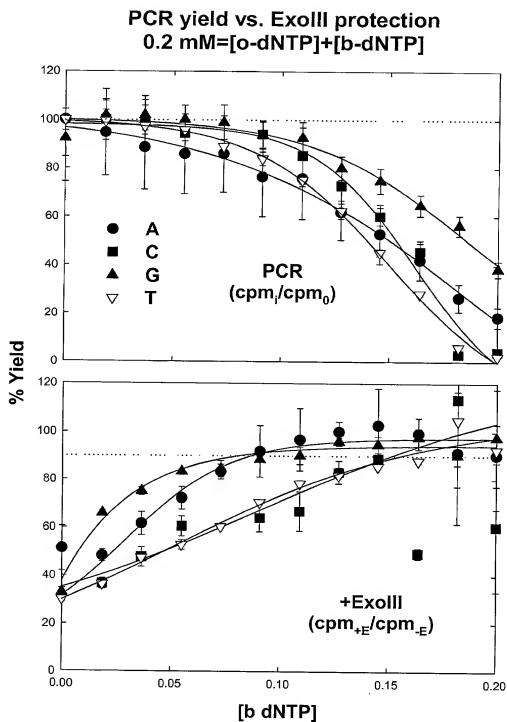
FIG. 8



9/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al SGM 6938 1

FIG. 9

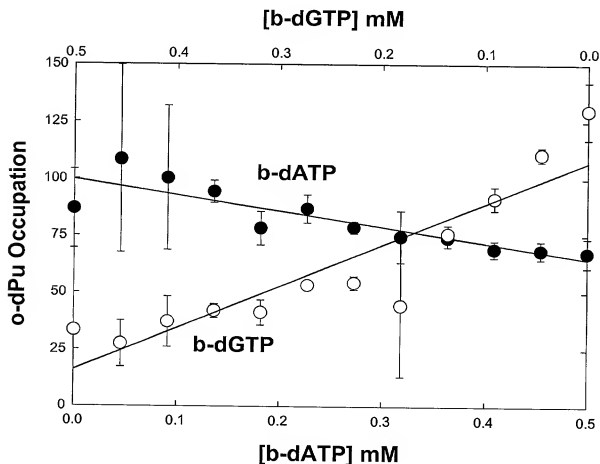


10/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al
SGM 6938 1

FIG. 10

**o dA, dG occupation of PCR product
as a function of [b dA/GTP]
[dC/TTP]= 0.1 mM, [o dA/GTP]=0.05 mM
[b dATP]+[b dGTP]=0.5 mM**



o-dA occupation= -70[b-dATP]+99.9
o-dG occupation= -170[b-dGTP]+100
o-dA=o-dG at [b-dATP]/[b-dGTP]=2.5

11/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Wood et al
SCM 6938.1

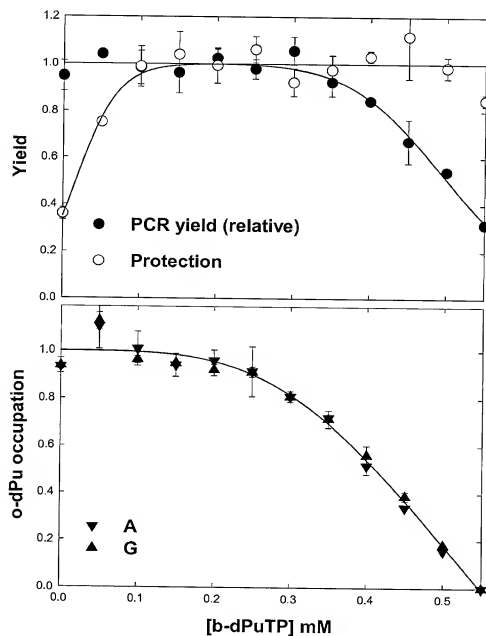
FIG. 11

b-dPuTP vs. o-dPuTP PCR.

b-dATP/b-dGTP=2.5

o-dATP/o-dGTP=1

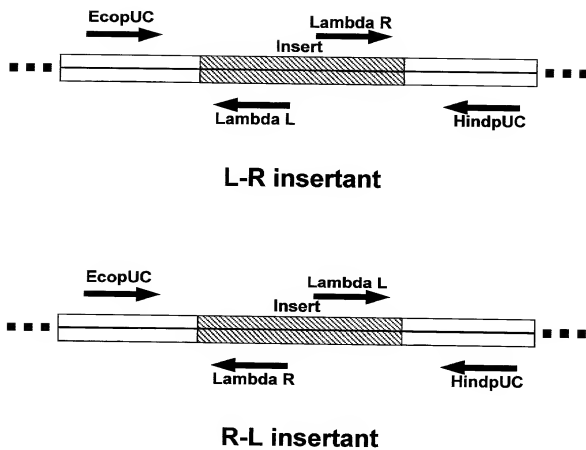
Sum dPuTP=0.55 mM, dPyTP=0.25 mM



12/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al
SGM 6938 I

FIG. 12



13/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al SGM 0938 I

FIG. 13A

1 2 3 4 5 6

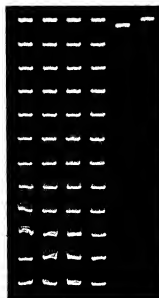


FIG. 13B

HindpUC		Lambda R		Plasmid Primer Insert Primer Cloning Method
Lambda L	Exo	RE	Exo	

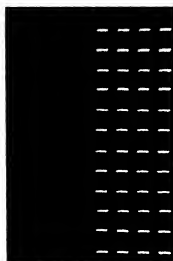


FIG. 14

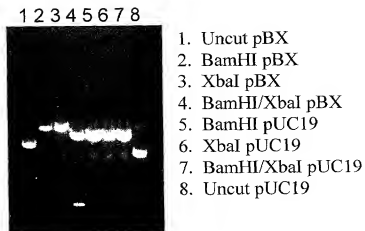
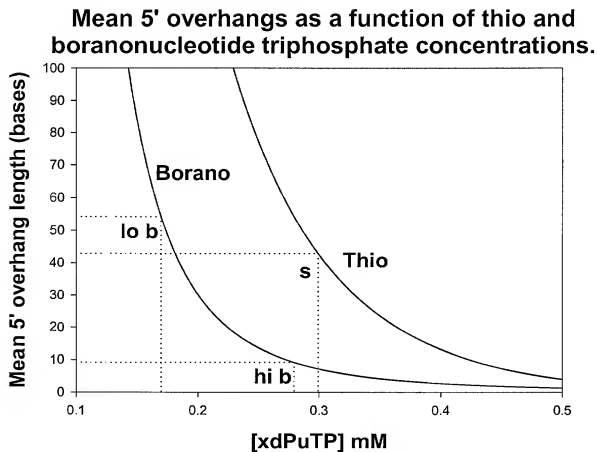


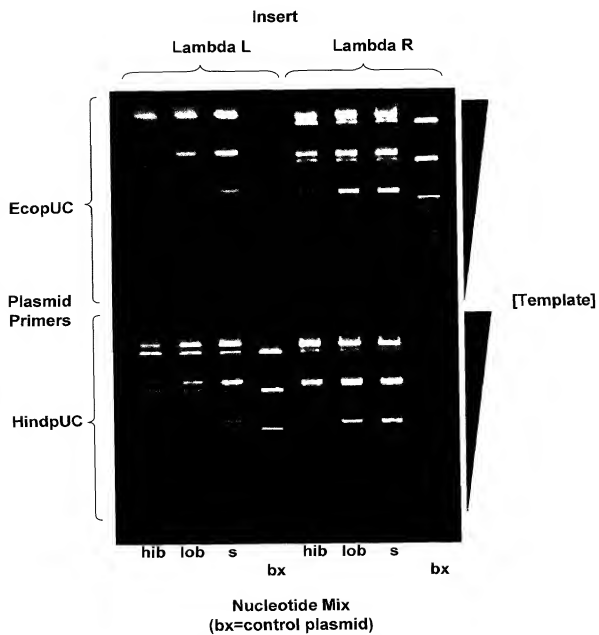
FIG. 15



16/20

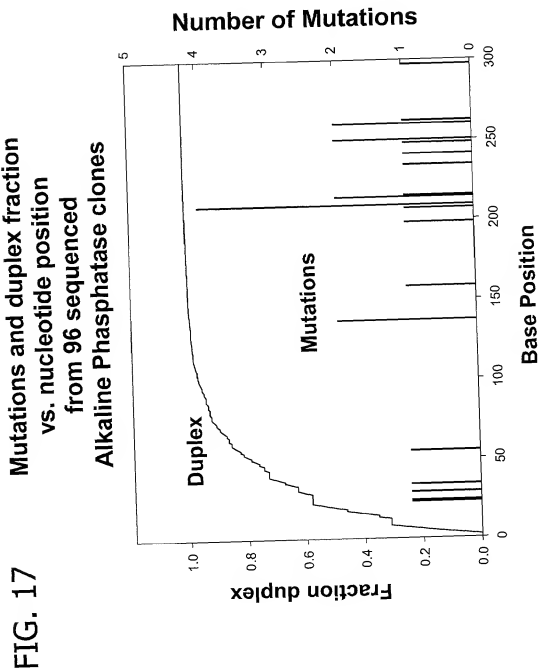
RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al. SGM 6938 I

FIG. 16



17/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al SGM 6938 1

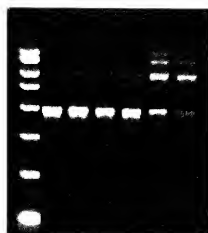


18/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al SGM 0938 1

FIG. 18

ExoClone
U B E H S X



Ligation Products

Digested amplicon

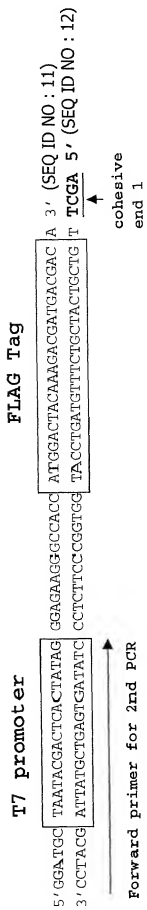
Self Ligation

19/20

RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE
CONTAINING MODIFIED NUCLEOTIDES
Ward et al. SGM 6938 1

FIG.19

5' Adaptor



3' Adaptor

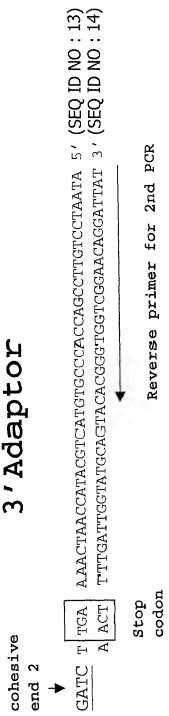


FIG. 20

